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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,426	02/27/2004	Stefan Biedenstein	13911-106001 / 2004P00006	5680
32864	7590	08/11/2006	EXAMINER VY, HUNG T	
FISH & RICHARDSON, P.C. PO BOX 1022 MINNEAPOLIS, MN 55440-1022			ART UNIT 2163	PAPER NUMBER

DATE MAILED: 08/11/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/789,426

Applicant(s)

BIEDENSTEIN ET AL.

Examiner

Hung T. Vy

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2163

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 June 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>7/14/2004</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION
Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 7/14/2004. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Claim Objections

2. Claim 1 is objected to because of the following informalities: in the line 4, after the phrase "the data" should be added ~~to~~ "is". Appropriate correction is required.

Claim Rejections - 35 U.S.C. § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1, 5, 7-9, 13 and 15-16 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Arras et al. (U.S. pub. No. 2006/0010147) in view of Rys et al. (U.S. Pub. No. 2003/0101194).

With respect to claims 1 and 9, Arras et al. discloses a method of aggregating data in an information management system and an information management system, the method and system comprising: a database, a computer (see claim 18), a SQL in order to obtain user-defined list of results (see paragraph 0016), it is obvious that buffering at least one dimension value corresponding to each key figure (pivot view) (see paragraph 0047) because before to execute the program or query, the program

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usually is loaded to the buffer or catch and waiting for executing; aggregating the dimension values to generate an aggregate key (pivot table)(see paragraph 0046), aggregating key figures (pivot view) corresponding to the same aggregate key to generate one or more aggregate key figures (pivot view) (see paragraph 0048) and displaying the response to the search on a display device, wherein the response includes at least one aggregate key figure (see fig. 1) but Arras et al. does not explicitly how to use the SQL to create a query, filtering the database based on the query to generate a list of results. However, Rys et al. discloses a query for a response to a search on a database (see paragraph 0033 and fig. 6), loading data from the database into a memory (see paragraph 0057 and fig. 6), filtering the dataset based on the query to generate a list of results (table)(see fig. 6). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Arras et al.'s invention by using the SQL query to create the list of result (table) in order to have database as list of result since such using the query to generate the list of result for the stated purpose has been well known in the art as evidenced by the teaching of Rys et al. (see paragraph 0009).

With respect to claims 5 and 13, Rys et al. discloses loading data from the database compresses loading data into a plurality of memories (see fig. 7).

With respect to claims 7-8 and 15-16, Arras et al. discloses organizing the data in the memory as column of the database and concatenating the dimension value (see fig. 1).

5. Claims 2 and 10 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Arras et al. (U.S. pub. No. 2006/0010147) and Rys et al. (U.S. Pub. No. 2003/0101194) and further in view of Zuk (U.S. Pub. No. 2004/0199535).

With respect to claims 2 and 10, Arras et al. and Rys et al. discloses all limitation recited in claims 1 or claim 9 except for generating a hash key based on the aggregate key and storing in a hash table. However, Zuk discloses generating a hash key based on the aggregate key and storing in a hash table (see fig. 9). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Arras et al.'s invention and Rys et al.'s invention to have generating a hash key and storing in a hash table in order to store the data can be fast since such using hash to store the data for the stated purpose has been well known in the art as evidenced by the teaching of Zuk (see paragraph 0015).

6. Claims 3-4 and 11-12 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Arras et al. (U.S. pub. No. 2006/0010147) and Rys et al. (U.S. Pub. No. 2003/0101194) and further in view of Singh (U.S. Pub. No. 2002/0152219).

With respect to claims 3-4 and 11-12, Arras et al. and Rys et al. discloses all limitation recited in claim 1 or claim 9 except for compression algorithm. However, Singh discloses compression algorithm (see paragraph 0001). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Arras et al.'s invention and Rys et al.'s invention to use a compression algorithm is dictionary-base compression in order to generate the query fast in database for the

stated purpose has been well known in the art as evidenced by the teaching of Singh (see paragraph 0001).

7. Claims 6 and 14 is rejected under 35 U.S.C. 103 (a) as being unpatentable over Arras et al. (U.S. pub. No. 2006/0010147) and Rys et al. (U.S. Pub. No. 2003/0101194) and further in view of Koskas (U.S. Pub. No. 2002/0093522).

With respect to claims 6 and 14, Arras et al. and Rys et al. discloses all limitation recited in claim 1 except for filtering the data based on the query is performed blockwise. However, Koskas discloses filtering the data based on the query is performed blockwise (see paragraph 0166 and 0334). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the Arras et al.'s invention and Rys et al.'s invention to have filtering the data based on the query is performed blockwise in order to take maximum advantage of the access and loading the data for the stated purpose has been well known in the art as evidenced by the teaching of Singh (see paragraph 0334).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung T. Vy whose telephone number is 571-2721954. The examiner can normally be reached on 8.30am - 5.30 pm.

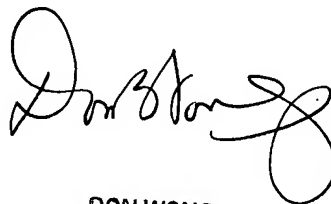
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on 571 272 1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

August 4, 2006.

H.V



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